

TABLE I.—Climatological data for Weather Bureau Stations, October, 1897.

Table with columns: Stations, Elevation of instruments, Pressure, Temperature of the air, Precipitation, Wind, and various weather metrics. Rows include stations like New England, Mid. Atl. States, S. Atl. States, Florida Peninsula, East Gulf States, West Gulf States, Ohio Val. & Tenn., Lower Lake Region, Upper Lake Region, and North Dakota.

TABLE I.—Climatological data for Weather Bureau Stations, October, 1897—Continued.

Table with columns for Stations, Elevation of instruments, Pressure, Temperature of the air, Precipitation, and Wind. Rows list various weather stations such as Up. Miss. Val., Springfield, Ill., Hannibal, St. Louis, etc., with corresponding numerical data and wind directions.

Notes.—The data at stations having no departures are not used in computing the district averages. Letters of the alphabet denote number of days missing from the record. \*Two or more dates. †Received too late to be considered in departures, etc.

TABLE II.—Meteorological record of voluntary and other cooperating observers, October, 1897.

Table with 15 columns: Stations, Temperature (Fahrenheit) (Maximum, Minimum, Mean), Precipitation (Rain and melted snow, Total depth of snow). Rows are organized by state: Alabama, Arizona-Cont'd, Arkansas, California-Cont'd.

TABLE II.—Meteorological record of voluntary and other cooperating observers—Continued.

Table with multiple columns for Stations, Temperature (Maximum, Minimum, Mean), and Precipitation (Rain and melted snow, Total depth of snow). It is divided into sections for California, Colorado, Connecticut, Delaware, District of Columbia, Florida, Georgia, Illinois, and Iowa.

TABLE II.—Meteorological record of voluntary and other cooperating observers—Continued.

Table with 15 columns: Stations, Temperature (Fahrenheit), Precipitation, and sub-columns for Maximum, Minimum, Mean, Rain and melted snow, and Total depth of snow. The table is divided into three main sections: Illinois-Cont'd, Indiana-Cont'd, and Iowa-Cont'd, each listing numerous weather stations and their corresponding data for October 1897.

TABLE II.—Meteorological record of voluntary and other cooperating observers—Continued.

Table with 15 columns: Stations, Temperature (Fahrenheit), Precipitation, and sub-columns for Maximum, Minimum, Mean, Rain and melted snow, and Total depth of snow. The table is divided into three sections: Kansas-Cont'd., Kentucky-Cont'd., and Maryland-Cont'd., with various sub-sections like Louisiana, Massachusetts, and Michigan.

TABLE II.—Meteorological record of voluntary and other cooperating observers—Continued.

Table with 15 columns: Stations, Temperature (Fahrenheit) [Maximum, Minimum, Mean], Precipitation [Rain and melted snow, Total depth of snow]. Rows are organized by state: Michigan-Cont'd, Minnesota-Cont'd, Missouri-Cont'd, and Montana.

TABLE II.—Meteorological record of voluntary and other cooperating observers—Continued.

Table with 15 columns: Stations, Temperature (Fahrenheit) (Maximum, Minimum, Mean), Precipitation (Rain and melted snow, Total depth of snow). Rows are organized by state: Montana-Cont'd, Nebraska-Cont'd, Nevada-Cont'd, and New Mexico.

TABLE II.—*Meteorological record of voluntary and other cooperating observers—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precipitation.		Stations.	Temperature. (Fahrenheit.)			Precipitation.		Stations.	Temperature. (Fahrenheit.)			Precipitation.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>New Mexico—Cont'd.</i>						<i>New York—Cont'd.</i>						<i>North Dakota—Cont'd.</i>					
Lordsburg* <sup>8</sup>	85	35	61.9			Rome	80	25	47.1	0.98		Hamilton	85	12	43.4	0.98	
Los Lunas	90	20	56.4	0.80		Romulus	87	32	53.4	1.21		Jamestown†	84	20	50.0	0.11	1.1
Lower Pecos	82	25	56.4	1.05	2.0	Rose	82	24	49.3	0.86		Larimore†	86	10	44.8	0.86	
Puerto de Luna†	84	26	56.3	0.80		St. Johnsville	81	24	49.3	0.93		McKinney	90	10	43.8	0.10	
Raton	84	18	48.1	3.87	T.	Saranac Lake	82	19	47.2	1.41		Mayville	80	18	47.3	0.75	
Rincon†	84	29	59.0	0.46	T.	Schenevus	82	21	49.3	0.73		Medora†	89	14	45.8	0.82	1.0
Roswell†	90	21	58.5	0.44		Scottsville	86	26	56.0	0.95		Milton†	80	11	42.4	1.00	
San Marcial†	86	29	59.9	1.88		Skaneateles	86	26	56.0	0.95		Minnewaukon	83	15	46.1	0.65	
Shattucks Ranch	83	21	55.6	0.68	T.	South Canisteo	84	20	49.5	1.04	T.	Minot†	98	10	46.8	0.68	0.2
Socorro	82	27	56.2	1.19	T.	Southeast Reservoir	84	20	49.5	0.93		Minto†	83	6	44.3	0.17	
White Oaks†	75	26	53.4	0.28	3.0	South Kortright†	79	18	48.2	0.93		Napoleon†	87	12	46.2	0.55	2.5
Winsors Ranch	68	8	42.0	3.39	6.0	Straits Corners	86	21	49.9	0.52	T.	New England City	82	15	42.6	0.20	2.0
<i>New York.</i>						<i>North Carolina.</i>						<i>Ohio.</i>					
Adams	86	24	51.3	0.42	T.	Abshers	92	81	61.3	6.52		Akron	85	29	55.8	1.65	
Addison	86	24	51.3	0.94	T.	Asheville†	87	33	59.0	2.70		Ashland	84	32	53.9	0.67	
Akron	82	24	50.1	1.24	T.	Beaufort†	84	40	67.6	8.77		Ashtabula	84	32	55.2	2.21	
Alfred	82	21	51.0	0.65		Biltmore†	87	27	58.0	2.43		Atwater	86	30	58.0	0.77	
Angelica†	85	29	52.0	1.05		Boydton	82	41	64.0	5.66		Bellefontaine	86	30	58.0	1.25	
Appleton	80	26	50.6	0.97		Chapelhill†	90	38	63.4	3.32		Bement	86	30	58.0	0.77	
Arkwright	78	33	52.6			Experimental Farm	88	44	62.8	3.23		Benton Ridge	92	30	58.2	1.15	
Atlanta	86	29	53.3	1.18		Fairbluff†	88	44	62.8	1.91		Bethany	89	38	62.8	0.87	
Auburn	86	29	53.3	0.75		Fayetteville†	89	39	63.1	2.17		Big Prairie	86	25	56.9	0.51	
Avon	86	24	51.8	0.72		Flatrock	80	29	56.6	5.46		Binola	86	32	57.0	0.98	
Baldwinsville	86	30	52.2	0.65		Goldsboro†	89	43	64.6	3.44		Bissell	89	31	59.4	0.14	
Bedford	80	24	53.1	2.03		Greensboro†	84	38	60.8	1.51		Bloomington	90	31	56.6	0.86	
Big Sandy* <sup>10</sup>	78	26	51.1			Greenville	82	41	63.7	6.76		Bowling Green	89	30	56.6	0.86	
Binghamton†	85	24	51.0	0.82	T.	Henderson†	92	42	61.9	4.05		Cambridge	87	25	55.6	0.84	
Bolivar	88	18	49.2	0.70	T.	Highlands	77	23	54.6	2.83		Camp Dennison	90	29	60.2	0.56	
Boukville	81	25	50.8	0.68		Jacksonville	89	44	65.7	7.70		Canal Dover	86	37	55.2	0.28	
Boyd's Corners	87	23	53.8	1.50		Lenoir* <sup>11</sup>	82	36	59.9	5.81		Canton†	87	31	56.5	0.35	
Brentwood	85	23	56.8	1.69		Lenoir* <sup>11</sup>	82	36	59.9	5.81		Carrollton	86	27	55.2	0.18	
Brooklyn	83	30	50.4	0.74		Linville†	74	23	51.3	3.57		Carrollton	86	27	55.2	0.18	
Canajoharie	79	17	47.6	0.64		Littleton†	86	37	61.2	4.36		Cedarville	86	28	57.5	0.49	
Canton	83	24	52.4	0.89		Louisburg† <sup>d</sup>	87	33	61.9	2.72		Celina	92	31	58.8	0.59	
Carmel	85	24	52.4	0.89		Lumberton	88	41	64.2	2.54		Cherryfork	92	25	63.0	0.48	
Catskill	88	27	53.2	0.81		Lynn†	84	38	62.1	4.69		Cireleville	88	34	59.8	0.90	
Cedar Hill	86	27	53.6	0.95		Mana	90	35	61.7	5.48		Clarksville	89	30	60.8	0.48	
Charlotte* <sup>10</sup>	74	27	47.6			Marion	88	35	63.0	1.81		Cleveland a.	83	36	57.8	1.53	
Chenango Forks	80	25	48.5	0.64		Moncure†	88	38	63.0	1.81		Cleveland b.	86	36	56.0	1.38	
Cherry Creek	80	25	48.5	0.64		Monroe†	87	35	63.0	1.91		Coalton	90	29	57.6	0.12	
Cooperstown†	84	24	52.4	0.72		Morganant	91	33	62.2	6.70		Colebrook	83	27	56.4	1.43	
Cortland	84	24	52.4	0.72		Mount Pleasant	86	32	59.6	5.01		Dayton a.	98	26	60.4	1.28	
Dekalb Junction	83	24	48.8	1.00	T.	Murphy†	82	50	66.5	4.69		Dayton b.†	86	27	56.4	1.43	
Dryden	83	24	48.8	1.00	T.	Newbern†	82	50	66.5	4.69		Defiance	92	31	58.0	0.74	
Eagle Mills	86	27	53.6	0.65		Oakridge†	86	37	61.0	1.76		Delaware	87	29	57.0	0.38	
Easton	86	27	53.6	0.65		Pantego* <sup>5</sup>	78	42	62.0	8.42		Demos	86	21	58.0	0.10	
Elmira	86	27	53.6	0.65		Pittsboro†	84	36	61.2	2.40		Dupont	86	21	58.0	0.10	
Fayetteville	85	33	54.5	0.80		Rockingham†	91	40	64.5	3.89		Elyria	90	32	57.9	0.78	
Fleming	85	33	54.5	0.80		Roxboro†	88	33	59.4	3.55		Fairport Harbor* <sup>10</sup>	85	40	68.6	0.55	
Fort Niagara†	85	32	54.2	1.05		Salem†	90	34	61.2	2.29		Fayetteville	88	30	60.4	0.55	
Franklinville	83	19	50.4	0.75	T.	Salisbury†	94	39	63.3	2.29		Findlay	91	32	57.0	1.49	
Fulton	80	23	49.2	0.59		Saxon†	90	32	61.4	3.02		Frankfort	87	32	57.0	0.80	
Garrattsville	83	23	49.7	1.52		Selma	88	39	63.4	0.55		Garrettsville†	87	25	54.4	1.56	T.
Glens Falls	84	22	49.0	1.59		Settle	90	45	62.6	3.86		Granville	88	27	56.8	0.68	
Gloversville	83	22	50.3	1.73		Sloan†	90	42	65.4	5.25		Gratlot	86	27	57.6	0.66	
Greenwich	83	22	50.3	1.73		Soapstone Mount†	88	34	60.8	3.14		Greenfield	84	34	59.9	0.50	
Haskinsville	84	24	50.3	0.92		Southern Pines a†	92	40	64.9	1.87		Greenhill	89	34	58.8	0.33	T.
Honeynead Brook	82	27	52.4	0.60		Southern Pines b	90	41	65.3	1.77		Greenville	82	33	57.4	0.68	
Humphrey†	82	27	52.4	0.60		Southport†	85	48	67.1	4.49		Hackney	85	29	60.5	0.17	
Ithaca	84	23	52.1	0.88	T.	Springhope* <sup>1</sup>	82	40	60.0	2.25		Hanging Rock	91	31	60.6	0.34	
Jamestown	82	25	51.2	0.69	T.	Tarboro	93	35	62.9	3.82		Hedges	83	29	55.2	0.25	
Kings Station	82	25	51.2	0.69	T.	Waynesville†	81	28	54.8	4.12		Hillhouse	83	29	55.2	0.25	
Lake George	84	25	51.0	1.59		Weldon†	87	37	62.3	4.12		Hillsboro†	95	25	60.2	0.73	
Lake Placid	78	20	47.3	1.88		Willeton	86	38	61.9	5.37		Hiram	93	31	54.8	2.78	
Little Falls	84	24	49.0	1.31		<i>North Dakota.</i>						Hudson	87	36	57.7	1.81	
Lockport	80	30	51.8	0.81		Amenia	88	11	46.2	1.06	2.5	Jacksonboro	94	33	62.2	1.80	
Lowville	80	18	49.4	1.34		Ashley†	88	11	46.2	1.06	2.5	Kenton†	89	31	59.2	0.85	
Lyndonville	85	23	53.2	0.48		Bottineau	80	11	46.2	1.06	2.5	Killbuck	89	25	55.5	1.28	
Lyons	78	21	50.5	0.80		Buxton	80	9	46.4	0.92	0.1	Lancaster	87	31	58.2	0.48	
Madison Barracks†	86	32	52.6	0.73		Churcho's Ferry	94	13	46.2	1.05	0.2	Lelpic	88	30	59.0	0.30	
Middletown	86	32	52.6	0.73		Coalharbor†	90	15	46.4	0.70	1.5	Levering	86	30	59.2	0.62	
Mohonk Lake <sup>1</sup>	82	34*	52.8	1.06		Devils Lake†	81	23	48.4	0.93		Logan	95	28	59.2	0.28	
Mount Morris	82	25	51.2	0.69		Dickinson	89	18	45.0	0.15	1.5	Lordstown	86	26	54.9	0.39	
Napoli	82	25	51.2	0.69		Dillon	82	18	47.8	0.99		McArthur	90	20	55.6	0.39	
Newark Valley	82	25	51.2	0.69		Ellendale	82	18	47.8	0.99		McConnelville†	98	28	59.6	0.56	
New Lisbon	82	18	47.4	0.73		Falconer	82	18	47.8	0.99		Mansfield†	87	33	59.2	0.65	
Niagara Falls	78	20															

TABLE II.—Meteorological record of voluntary and other cooperating observers—Continued.

Table with 12 columns: Stations, Temperature (Fahrenheit), Precipitation, Stations, Temperature (Fahrenheit), Precipitation, Stations, Temperature (Fahrenheit), Precipitation. Rows include locations like Millport, Fairview, Karthaus, etc., with data for Maximum, Minimum, Mean, Rain and melted snow, and Total depth of snow.

TABLE II.—Meteorological record of voluntary and other cooperating observers—Continued.

Table with 15 columns: Stations, Temperature (Fahrenheit) (Maximum, Minimum, Mean), Precipitation (Rain and melted snow, Total depth of snow). Rows are categorized by state: South Carolina, South Dakota, Tennessee, Texas, Vermont, and Virginia.

TABLE II.—Meteorological record of voluntary and other cooperating observers—Continued.

Main data table with columns for Stations, Temperature (Fahrenheit), and Precipitation. Includes sub-sections for Virginia, Washington, Wisconsin, Minnesota, Missouri, Montana, Nevada, New Jersey, New Mexico, New York, Oregon, South Dakota, Tennessee, Utah, and Wyoming.

EXPLANATION OF SIGNS.

\* Extremes of temperature from observed readings of dry thermometer.
† Weather Bureau instruments.
‡ Record furnished by the Arrowhead Reservoir Company, in the San Bernardino Mountains, San Bernardino County, Cal., at elevations varying from 5,150 to 5,350 feet.
A numeral following the name of a station indicates the hours of observation from which the mean temperature was obtained, thus:
1 Mean of 7 a. m. + 2 p. m. + 9 p. m. + 9 p. m. + 4.
2 Mean of 8 a. m. + 8 p. m. + 2.
3 Mean of 7 a. m. + 7 p. m. + 2.
4 Mean of 6 a. m. + 6 p. m. + 2.
5 Mean of 7 a. m. + 2 p. m. + 2.
6 Mean of readings at various hours reduced to true daily mean by special tables.
7 Mean from hourly readings of thermograph.
8 Mean of 7 a. m. + 2 p. m. + 9 p. m. + 3.
9 Mean of sunrise and noon.
10 Mean of sunrise, noon, sunset, and midnight.
The absence of a numeral indicates that the mean temperature has been obtained from daily readings of the maximum and minimum thermometers.
An italic letter following the name of a station, as "Livingston a," "Livingston b," indicates that two or more observers, as the case may be, are reporting from the same station. A small roman letter following the name of a station, or in figure columns, indicates the number of days missing from the record; for instance, "a" denotes 14 days missing.
No note is made of breaks in the continuity of temperature records when the same do not exceed two days. All known breaks, of whatever duration, in the precipitation record receive appropriate notice.

CORRECTIONS.

Kansas, Hays, June, 1897, make maximum, minimum, and mean temperature read 100, 48, and 74.8 instead of 95, 45, and 68.6.
August Review, page 342, second column, lines 36, 37, for 8th, 16th, 74, read 7th, 15th, 77.
Page 899, first column, line 16 from bottom, for "7 inches deep," read "seven deep."
Florida, Huntington, September, 1897, make maximum and mean temperature read 89 and 78.2.
Oklahoma, September, 1897, make Pondcreek read Jefferson.
Wisconsin, Waukesha, September, 1897, make mean temperature read 67.2 instead of 67.0.
NOTE.—The following change has been made in names of stations: Wyoming, Strong changed to Lowell.

Late reports for September, 1897.

Table listing late reports for September 1897 for Alaska, Arizona, California, Georgia, Iowa, Kansas, Louisiana, Michigan, and Missouri.

TABLE III.—Data from Canadian stations for the month of October, 1897.

Stations.	Pressure.			Temperature.		Precipitation.		Prevailing direction of wind.	Total depth of snow.
	Mean not reduced.	Mean reduced.	Departure from normal.	Mean.	Departure from normal.	Total.	Departure from normal.		
St. Johns, N. F. . . . .	29.70	29.85	-.09	43.6	- 2.8	4.49			
Sydney, C. B. I. . . . .	30.01	30.07	+ .11	45.2	- 1.3	2.21	- 2.09	ne.	
Grindstone, G. St. L. . . . .								nw.	
Halifax, N. S. . . . .	30.01	30.14	+ .16	46.4	+ 0.8	0.75	- 4.64	w.	
Grand Manan, N. B. . . . .	30.06	30.11	+ .17	48.0	+ 1.1	0.40	- 4.23	w.	
Yarmouth, N. S. . . . .	30.07	30.15	+ .17	46.2	+ 1.4	0.78	- 3.25	s.	
Charlottetown, P. E. I. . . . .	30.04	30.08	+ .16	45.6	+ 0.9	1.84	- 2.64	nw.	
Chatham, N. B. . . . .	30.04	30.06	+ .10	43.6	+ 0.6	0.96	- 2.93	w.	
Father Point, Que. . . . .	30.01	30.04	+ .08	41.8	+ 2.0	1.78	- 0.86	w.	
Quebec, Que. . . . .	29.77	29.11	+ .12	43.4	+ 1.0	1.25	- 2.40	sw.	
Montreal, Que. . . . .	29.91	30.12	+ .12	46.2	+ 1.4	0.65	- 2.96	sw.	
Rockliffe, Ont. . . . .	29.53	30.10	+ .08	43.0	+ 1.5	1.86	- 0.84	se.	
Kingston, Ont. . . . .	29.80	30.12	+ .09	49.1	+ 2.1	1.09	- 1.91	ne.	
Toronto, Ont. . . . .	29.74	30.12	+ .03	49.0	+ 2.4	1.44	- 0.85	n.	
White River, Ont. . . . .	29.69	30.06	+ .04	38.9	+ 1.8	1.43	- 1.02	s.	
Port Stanley, Ont. . . . .	29.46	30.10	+ .07	49.1	+ 1.3	1.09	- 2.19	e.	
Saugeen, Ont. . . . .	29.38	30.10	+ .10	47.6	+ 1.5	2.52	- 1.29	se.	
Parry Sound, Ont. . . . .	29.40	30.10	+ .09	46.2	+ 2.3	4.17	- 0.15	e.	
Port Arthur, Ont. . . . .	29.20	30.01	+ .01	43.8	+ 2.9	1.44	- 1.25	w.	
Winnipeg, Man. . . . .	29.11	29.95	- .04	41.0	+ 1.9	1.33	- 0.40	nw.	
Minnedosa, Man. . . . .	28.13	29.95	- .02	39.6	+ 1.8	1.01	- 0.55	nw.	
Qu'Appelle, Assin. . . . .	27.66	29.95	- .02	38.2	+ 1.2	0.69	- 0.33	s.	
Medicine Hat, Assin. . . . .	27.63	29.95	- .01	41.8	+ 3.0	1.26	- 0.82	w.	
Swift Curr't, Assin. . . . .	27.33	29.99	- .00	39.5	+ 2.6	0.88	- 0.35	w.	
Calgary, Alberta. . . . .	26.36	29.93	- .03	39.6	+ 0.5	0.76	+ 0.40	nw.	
Prince Albert, Sask. . . . .	28.34	29.87		37.3	+ 0.2	0.59		sw.	
Edmonton, Alberta. . . . .	27.56	29.92	- .02	41.6	+ 0.5	0.27	- 0.30	nw.	
Battleford, Sask. . . . .	28.16	29.91		40.2	+ 0.6	0.19		w.	
Kamloops, B. C. . . . .	28.60	29.84		47.5		0.41		se.	
Hamilton, Bermuda . . . . .	29.88	30.04	+ .02	74.0	+ 1.0	7.52		ne.	
Banff, Alberta. . . . .	25.34	30.02		37.6		1.31		sw.	
Esquimalt, B. C. . . . .	30.01	30.04		47.4	- 1.0	1.26		e.	
Ottawa, Ont. . . . .	29.79	30.16		44.0	+ 0.2	0.69		e.	

TABLE IV.—Meteorological observations at Honolulu, Republic of Hawaii, by Curtis J. Lyons, Meteorologist to the Government Survey.

Pressure is corrected for temperature and reduced to sea level, but the gravity correction, -0.06, is still to be applied. The average direction and force of the wind and the average cloudiness for the whole day are given unless they have varied more than usual, in which case the extremes are given. The scale of wind force is 0 to 10. Two directions of wind, connected by a dash, indicate change from one to the other; also same for force. The rainfall for twenty-four hours is given as measured at 6 a. m. on the respective dates.

October, 1897.	Pressure at sea level.			Temperature.				Relative humidity.			Wind.		Cloudiness.	Rain measured at 6 a. m.
	6 a. m.	8 p. m.	9 p. m.	6 a. m.	2 p. m.	9 p. m.	Maximum.	Minimum.	6 a. m.	2 p. m.	9 p. m.	Direction.		
1 . . .	30.09	30.07	30.13	75	79	76	83	73	74	75	74	ene.	3	0.04
2 . . .	30.08	30.03	30.08	76	80	76	84	70	70	68	70	ene.	3	0.03
3 . . .	30.05	30.00	30.06	73	82	74	85	71	71	78	85	ene.	2	0.00
4 . . .	30.03	29.95	30.03	70	83	74	87	69	86	88	85	ne.	3	0.00
5 . . .	29.97	29.91	29.97	69	79	71	85	67	85	86	71	ne.	1	0.00
6 . . .	29.98	29.94	29.99	73	80	76	82	69	78	88	78	sw.	3-10	0.00
7 . . .	30.03	30.00	30.06	72	82	77	86	67	82	85	74	sw.	1	0.03
8 . . .	30.05	30.00	30.07	74	83	77	86	67	82	85	74	e.	3	0.00
9 . . .	30.06	30.00	30.05	74	83	75	85	73	87	87	69	ene.	2	0.00
10 . . .	30.00	30.00	29.97	73	81	74	84	70	82	82	73	ese.	2	0.00
11 . . .	29.95	29.95	30.02	73	80	75	84	70	81	72	81	s.	2	0.03
12 . . .	30.05	29.92	30.14	74	80	76	81	70	86	72	81	sw.	1	0.04
13 . . .	30.13	30.05	30.12	74	79	76	82	75	82	88	74	ne.	1	0.33
14 . . .	30.10	30.07	30.06	75	79	75	81	74	82	86	70	ene.	2	0.03
15 . . .	30.07	30.02	30.06	74	79	76	80	72	82	84	70	ne.	6	0.03
16 . . .	30.05	30.01	30.03	74	80	76	82	70	82	84	66	ne.	6	0.02
17 . . .	30.01	29.99	30.03	69	80	78	82	70	74	55	66	ene.	6	0.01
18 . . .	30.04	29.99	30.05	72	79	75	81	67	81	68	74	ene.	5	0.34
19 . . .	30.05	29.97	30.05	76	81	73	85	73	74	61	68	ne.	2	0.17
20 . . .	30.05	29.95	30.09	76	80	77	81	69	74	61	74	ene.	2	0.01
21 . . .	30.06	30.08	30.09	74	81	76	83	73	70	61	71	ene.	5	0.01
22 . . .	30.06	30.06	30.03	75	80	78	82	75	74	64	81	ene.	4	0.01
23 . . .	30.05	30.00	30.05	74	80	79	81	72	83	68	78	ene.	3	0.07
24 . . .	30.03	29.98	30.04	71	79	76	83	69	81	63	91	s.	1	0.01
25 . . .	30.02	29.97	30.00	72	78	76	82	69	81	71	91	s.	1	0.09
26 . . .	29.98	29.93	29.99	74	79	76	82	71	81	79	82	sw.	2	0.08
27 . . .	29.98	29.95	30.04	72	79	72	80	70	81	79	81	sw.	1	0.00
28 . . .	30.03	30.00	30.07	72	80	74	84	69	81	79	91	e.	1	0.34
29 . . .	30.03	30.02	30.08	72	79	72	84	70	86	71	86	ene.	1	0.04
30 . . .	30.04	30.00	30.06	72	82	76	84	70	78	58	74	ene.	6	0.00
31 . . .	30.04	30.00	30.06	73	80	74	82	72	82	61	74	ene.	1	0.00
	30.04	29.99	30.05	73.1	80.2	75.1	83.1	72.5	83.1	65.6	79.5	ene.	1.8	6.0

Mean temperature: 6+3+9+3 is 76.1°; extreme temperatures 87° and 66°.

TABLE V.—Mean temperature for each hour of seventy-fifth meridian time, October, 1897.

Table with 24 columns (1 a.m. to Mean) and 24 rows of station data including Bismarck, Boston, Buffalo, Chicago, Cincinnati, Cleveland, Detroit, Dodge City, Eastport, Galveston, Havre, Kansas City, Key West, Memphis, New Orleans, New York, Philadelphia, Pittsburg, Portland, St. Louis, St. Paul, Salt Lake City, San Diego, San Francisco, Savannah, and Washington, D.C.

TABLE VI.—Mean pressure for each hour of seventy-fifth meridian time, October, 1897.

Table with 24 columns (1 a.m. to Mean) and 24 rows of station data including Bismarck, Boston, Buffalo, Chicago, Cincinnati, Cleveland, Detroit, Dodge City, Eastport, Galveston, Havre, Kansas City, Key West, Memphis, New Orleans, New York, Philadelphia, Pittsburg, Portland, St. Louis, St. Paul, Salt Lake City, San Diego, San Francisco, Savannah, and Washington, D.C.

TABLE VII.—Average wind movement for each hour of seventy-fifth meridian time, October, 1897.

Table with 24 columns representing hours from 1 a.m. to Midnight and a Mean column. Rows list various stations such as Abilene, Tex., Albany, N. Y., Alpena, Mich., etc., with corresponding wind speed values.

TABLE VII.—Average wind movement, etc.—Continued.

Stations.	1 a. m.	2 a. m.	3 a. m.	4 a. m.	5 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.	9 p. m.	10 p. m.	11 p. m.	Midnight.	Mean.
Pensacola, Fla.....	8.5	8.7	8.8	9.2	8.9	8.7	8.8	8.8	9.3	9.7	9.3	9.7	10.0	9.6	9.6	9.7	9.8	9.8	7.6	7.2	7.5	8.3	8.5	8.6	8.9
Philadelphia, Pa.....	9.8	10.4	10.2	10.1	10.9	10.3	10.1	10.9	11.6	11.6	11.1	11.2	11.5	11.6	11.7	11.6	11.3	10.3	10.6	10.5	10.3	10.1	9.8	9.7	10.7
Phoenix, Ariz.....	3.1	3.4	3.3	3.3	3.5	3.4	3.3	3.3	3.5	3.8	3.3	4.0	4.4	5.1	4.3	5.0	5.3	4.8	4.4	3.4	3.7	3.5	3.5	3.2	3.5
Pierre, S. Dak.....	6.9	6.5	7.5	7.3	6.9	7.1	6.5	6.4	6.1	6.9	8.9	10.8	11.8	12.3	13.8	12.7	11.7	11.5	10.0	8.8	9.0	7.6	7.3	7.5	8.5
Pittsburg, Pa.....	3.8	3.7	3.6	3.0	3.7	3.1	3.3	3.7	4.1	5.7	6.5	6.6	7.3	7.5	7.8	7.4	7.4	6.8	5.5	5.4	5.6	5.5	4.6	4.3	5.3
Port Angeles, Wash..	4.9	5.3	5.3	4.9	4.9	4.9	4.5	4.7	4.4	4.8	4.5	3.4	3.5	4.5	4.7	4.5	4.5	4.3	3.9	3.7	3.5	4.4	4.7	4.8	4.5
Port Huron, Mich....	9.1	8.9	8.1	8.9	9.1	8.8	9.1	9.0	9.1	10.2	10.2	10.6	11.8	12.7	13.0	11.5	10.7	9.6	9.0	8.7	8.9	8.8	9.1	9.1	9.7
Portland, Me.....	6.5	6.4	6.5	6.5	6.5	6.4	6.7	6.9	7.6	7.9	6.7	9.4	10.0	10.5	10.1	9.2	8.0	6.5	6.0	6.3	6.5	6.4	6.5	6.4	7.4
Portland, Ore.....	5.4	6.8	6.9	6.4	6.2	6.1	5.9	5.5	6.0	6.4	6.3	6.1	6.8	7.4	7.8	7.9	7.5	8.0	8.0	7.1	6.3	6.0	6.4	5.9	6.6
Pueblo, Colo.....	7.5	6.8	6.5	7.1	6.4	6.5	6.6	6.8	6.8	6.7	7.4	6.4	6.4	7.5	8.5	9.4	10.3	10.3	9.7	11.1	9.0	8.7	7.9	7.4	7.8
Raleigh, N. C.....	4.0	5.8	6.2	6.3	6.2	6.5	6.4	6.9	7.5	8.0	8.6	8.6	8.7	8.1	8.1	9.1	7.9	7.6	6.7	6.6	6.7	6.5	6.8	6.6	7.1
Rapid City, S. Dak...	4.8	7.3	7.5	7.0	7.7	7.2	8.0	7.2	7.0	6.6	8.2	8.5	10.8	12.2	12.7	13.8	11.7	11.2	8.8	6.7	5.9	5.9	6.4	6.4	8.4
Red bluff, Cal.....	4.9	6.2	5.0	5.1	4.9	5.0	4.7	5.3	5.6	5.3	5.6	6.2	7.3	7.1	7.1	6.9	7.4	7.5	7.5	6.7	5.6	5.6	5.0	4.8	5.9
Rochester, N. Y.....	6.2	6.3	6.4	6.8	6.7	6.7	6.7	6.8	7.7	7.9	7.9	8.3	8.2	8.1	8.3	8.1	7.5	6.5	6.4	6.1	6.1	6.1	6.0	5.8	7.0
Roseburg, Ore.....	3.0	1.8	1.5	1.4	1.4	1.5	1.5	1.9	1.8	1.8	2.0	2.0	2.3	2.5	3.3	4.3	4.5	4.6	4.5	4.4	3.5	2.9	1.8	1.8	2.6
Sacramento, Cal.....	8.5	8.3	8.8	8.8	8.8	7.9	8.3	8.1	7.4	7.7	7.4	7.3	7.8	8.5	8.9	8.1	8.4	8.5	8.8	8.5	8.4	9.0	9.6	9.1	8.4
St. Louis, Mo.....	5.1	7.8	7.6	8.1	8.2	7.4	6.9	6.2	6.7	7.5	7.9	7.9	8.0	8.2	7.9	8.5	8.6	8.0	7.0	7.3	7.9	8.0	8.6	8.6	7.3
St. Paul, Minn.....	5.6	5.3	5.1	6.0	6.2	5.8	6.0	6.2	6.2	7.6	8.8	9.7	9.9	10.1	10.2	10.5	9.9	8.8	8.3	7.8	8.3	7.2	6.9	6.2	7.6
Salt Lake City, Utah.	4.5	5.1	5.2	4.4	4.6	4.8	4.2	3.9	4.4	3.7	3.8	4.9	6.0	7.5	8.8	8.9	10.0	10.2	8.9	8.9	5.7	5.0	5.0	4.7	5.9
San Antonio, Tex.....	6.4	5.3	6.0	6.1	5.7	5.3	5.6	5.8	6.0	6.4	6.4	8.9	9.5	9.6	9.9	10.0	10.7	10.4	9.7	8.4	8.9	6.5	8.1	7.0	7.8
San Diego, Cal.....	3.9	3.7	4.3	4.1	4.4	4.2	4.0	4.4	4.8	4.2	3.5	4.3	5.8	7.4	9.4	10.8	11.0	10.8	10.2	8.9	6.6	4.8	4.1	3.8	6.0
Sandusky, Ohio.....	7.7	7.7	8.2	8.0	8.0	8.3	8.2	8.0	8.2	8.5	8.7	9.3	9.6	9.5	9.8	8.9	8.8	7.4	7.0	7.1	7.5	7.3	7.3	7.5	8.2
San Francisco, Cal....	9.9	9.3	8.6	8.8	7.8	6.6	7.1	6.7	6.5	6.0	6.6	7.1	7.8	8.1	8.8	10.4	12.8	14.3	14.7	15.3	13.7	12.9	12.0	11.2	9.7
San Luis Obispo, Cal.	8.1	3.0	2.5	2.5	2.7	3.2	3.1	3.0	2.8	3.4	3.3	3.9	4.5	5.1	5.8	7.5	8.6	8.8	7.8	6.4	4.9	4.3	3.5	3.3	4.5
Santa Fe, N. Mex.....	6.2	6.1	6.0	5.6	4.9	4.3	4.5	4.8	5.0	5.2	6.9	8.1	8.4	8.5	9.3	9.2	9.1	9.0	8.2	5.3	5.3	5.8	6.7	7.1	6.6
Sault Ste Marie, Mich.	7.7	7.3	6.7	6.9	7.4	7.7	7.4	7.5	8.1	8.2	8.6	9.3	9.7	10.8	11.8	11.4	10.9	10.4	9.3	9.8	9.3	9.1	8.3	8.3	8.8
Savannah, Ga.....	7.4	7.3	7.8	7.9	7.7	7.7	7.7	7.8	8.4	9.4	10.2	9.9	10.6	11.1	11.0	10.9	10.0	8.3	7.8	7.8	7.8	7.4	7.3	7.4	8.6
Seattle, Wash.....	8.2	3.6	3.5	3.5	3.7	4.1	4.0	3.4	3.5	3.5	3.6	4.1	3.9	4.8	4.9	5.2	5.2	5.0	4.9	4.8	4.5	4.4	3.7	3.5	4.1
Shreveport, La.....	4.8	4.4	4.0	4.2	4.5	4.1	4.0	3.8	3.9	5.2	5.7	6.4	7.2	7.6	7.0	7.1	6.9	6.3	4.8	4.5	4.7	5.1	5.2	5.3	5.3
Sioux City, Iowa.....	9.9	9.6	10.4	10.9	10.8	10.1	10.1	10.5	10.2	10.5	11.7	12.2	14.0	15.6	15.7	16.8	16.6	15.0	12.3	11.3	11.2	12.1	11.8	10.9	12.1
Spokane, Wash.....	3.4	3.4	3.3	3.2	3.3	3.1	3.1	3.5	3.4	3.5	3.9	4.5	5.0	5.3	5.5	5.2	5.2	5.3	4.6	4.5	4.1	3.7	3.8	3.8	4.1
Springfield, Ill.....	8.0	7.7	7.8	7.4	7.3	7.2	7.4	7.4	7.5	8.0	8.1	8.0	8.6	9.0	9.1	9.2	8.9	7.7	6.9	7.5	7.7	8.0	8.0	7.8	7.9
Springfield, Mo.....	9.3	9.5	9.3	9.5	9.1	9.1	8.9	8.3	8.5	8.5	9.3	9.0	9.7	9.8	10.4	10.5	9.9	9.7	7.5	7.4	8.4	9.3	10.0	10.1	9.2
Tacoma, Wash.....	2.7	3.0	2.7	2.9	3.7	3.5	3.3	2.6	2.8	3.2	3.8	4.3	4.7	5.0	6.0	6.1	6.1	5.2	5.1	5.0	5.0	4.8	3.9	3.0	4.1
Tampa, Fla.....	4.8	4.8	4.8	4.8	4.7	4.4	4.6	5.3	6.4	7.8	8.0	8.2	9.2	9.2	9.2	9.5	9.4	7.5	6.4	6.2	5.8	5.3	4.6	4.6	6.5
Tatoosh Island, Wash.	12.8	14.1	14.3	14.5	15.2	13.8	12.9	13.3	13.9	14.1	14.2	14.3	13.9	14.6	14.2	14.6	13.6	13.4	12.7	12.8	12.3	11.6	11.6	12.0	13.5
Toledo, Ohio.....	8.1	7.9	7.9	7.8	8.0	7.9	8.2	8.0	8.6	9.7	10.0	10.9	11.5	11.6	11.6	11.7	10.9	9.2	8.3	8.2	8.3	8.1	7.6	9.1	9.1
Vicksburg, Miss.....	5.1	4.7	4.6	4.9	5.4	5.2	5.4	6.1	6.1	5.9	5.3	5.8	6.5	6.7	7.2	7.3	6.6	5.3	4.0	4.5	5.4	5.3	5.6	5.6	5.6
Vineyard Haven, Mass	10.3	10.0	10.4	10.0	10.4	10.3	10.5	11.0	11.5	11.5	11.6	11.7	11.7	10.9	11.4	11.1	10.4	10.0	9.9	10.5	10.1	9.7	10.0	10.0	10.6
Walla Walla, Wash....	4.4	4.3	4.2	4.4	4.3	4.5	4.2	4.3	4.5	4.5	4.1	4.6	5.2	5.5	5.6	5.1	5.1	5.0	4.5	4.0	4.1	5.0	4.9	4.6	4.6
Washington, D. C.....	4.5	4.5	4.6	5.2	5.8	5.6	4.9	5.9	6.4	6.9	7.6	8.1	8.4	8.4	8.7	8.0	8.1	7.0	6.3	5.9	5.5	5.1	5.0	5.3	6.3
Wichita, Kans.....	7.1	7.4	7.0	6.7	6.6	6.5	6.9	6.8	7.0	7.6	8.3	9.1	10.6	10.8	11.1	11.3	10.7	9.6	7.7	6.5	6.8	7.5	7.2	7.2	8.1
Williston, N. Dak.....	7.0	7.0	6.1	6.0	6.0	5.7	5.9	5.9	6.0	6.4	7.7	8.9	10.5	11.7	12.9	13.8	14.1	13.3	11.5	9.9	8.5	8.6	8.5	7.8	8.7
Wilmington, N. C.....	7.8	7.9	7.8	8.1	8.2	7.7	7.8	7.6	8.3	9.2	9.9	9.8	10.1	10.5	10.9	10.3	9.9	8.3	7.5	8.1	8.4	7.8	7.8	7.8	8.7
Woods Hole, Mass.....	13.9	14.0	13.9	14.4	14.3	14.4	14.1	13.9	14.9	14.7	14.3	14.0	14.8	14.0	15.2	15.3	14.4	14.1	13.7	13.7	13.7	13.5	13.8	13.9	14.2
Yankton, S. Dak.....	6.9	7.4	7.2	7.6	7.8	7.2	7.2	7.6	7.3	8.3	9.4	10.5	11.7	12.8	13.4	13.5	12.8	11.3	8.6	7.9	7.5	7.1	6.9	6.8	8.9

TABLE VIII.—Resultant winds from observations at 8 a. m. and 8 p. m., daily, during the month of October, 1897.

Table with columns for Stations, Component direction from (N, S, E, W), Resultant (Direction from, Duration), and Hours. The table is organized into regional sections: New England, Middle Atlantic States, South Atlantic States, Florida Peninsula, Eastern Gulf States, Western Gulf States, Ohio Valley and Tennessee, Lower Lake Region, Upper Lake Region, Upper Lake Region—Cont'd., North Dakota, Upper Mississippi Valley, Missouri Valley, Northern Slope, Middle Slope, Southern Slope, Southern Plateau, Middle Pacific Coast Region, and South Pacific Coast Region.

\*From observations at 8 p. m. only.

†From observations at 8 a. m. only.







TABLE XII.—Excessive precipitation, by stations, for October, 1897.

Stations.	Monthly rainfall 10 inches, or more.	Rainfall 2.50 inches, or more, in 24 hours.		Rainfall of 1 inch, or more, in one hour.		
		Amt.	Day.	Amt.	Time.	Day.
<i>Alabama.</i>						
Daphne	Inches.	Inches.	31	Ins.	h. m.	
Scottsboro		4.35	31			
		3.05	18			
<i>Arkansas.</i>						
Blanchard Springs		3.01	31			
Elon		3.80	31			
Luna Landing		3.32	31			
<i>California.</i>						
Azusa		7.55	18-14			
Fort Ross		2.33	23			
Glendora		6.45	13			
North Ontario		2.50	13-14			
Oakland		2.73	23			
Pilot Creek		2.67	23			
San Jacinto		2.90	14			
Sierra Madre		2.33	13-14			
Upper Muttolo		2.65	24			
<i>Colorado.</i>						
Millbrook		2.80	27			
Stamford		2.90	26			
<i>Florida.</i>						
Boca Raton	10.01	5.00	10			
Federal Point		6.59	16-18			
Jacksonville		2.74	17-18			
Key West		3.16	18-19	1.53	1 00	1
Do				1.38	1 00	19
Macolenny		3.85	17-18			
Milton		3.14	13	3.14	1 00	18
Pensacola		3.40				
St. Francis Barracks		6.30	16-17			
Sebastian	10.26					
Tampa		2.90	22-23			
<i>Georgia.</i>						
Crescent		2.85	19			
Fleming		7.04	18-19			
Greenbush		2.58	19			
Jesup		2.87	18			
Savannah		6.31	17-19			
<i>Idaho.</i>						
Kootenai		2.50	11			
<i>Kansas.</i>						
Achilles		3.25	25-26			
Beloit		3.31	17-18			
Colby		3.25	25-26			
Concordia		2.59	16-17			
Wichita		2.88	10	2.50	1 00	10
Winona		3.00	26			
<i>Kentucky.</i>						
Ensor		2.74	19			
Pleasure Ridge Park		2.53	19			
<i>Louisiana.</i>						
Abbeville		3.60	30-31			
Farmerville		2.90	30-31			
Hammond		2.67	31			
Liberty Hill		4.50	31			
Melville				1.08	1 00	19
Minden		2.75	31			
Montgomery		2.50	27			
New Iberia		2.65	31			
Ruston		3.15	31			
Sugartown		3.27	31			
<i>Maryland.</i>						
Baltimore				1.38	1 00	12
Mardela Springs		3.02	24			
<i>Mississippi.</i>						
Greenville		3.43	31			
Greenwood		2.60	31			
<i>Nebraska.</i>						
Ansley		2.95	26			
Benedict		2.60	17			
Broken Bow		2.73	27			
Callaway		3.50	26			
Culbertson		3.00	25-26			
Dannebrog		3.80	26			
Dawson		2.67	17			
Divide		2.93	27			

TABLE XII.—Excessive precipitation—Continued.

Stations.	Monthly rainfall 10 inches, or more.	Rainfall 2.50 inches, or more, in 24 hours.		Rainfall of 1 inch, or more, in one hour.		
		Amt.	Day.	Amt.	Time.	Day.
<i>Nebraska—Continued.</i>						
Edgar	Inches.	Inches.	Ins.	h. m.		
Elba		4.20	17			
Fairmont		2.55	26			
Geneva		3.60	13			
Grand Island		2.62	17			
Hays		2.88	26-27			
Holdrege		2.35	24-25			
Indianola (near)		2.70	27			
Kearney		3.11	27			
Loup		3.45	26			
Minden		2.98	26-27			
Nesbit		3.59	26			
Norman		5.50	25-26			
Ravenna		3.94	27			
Hedcloud		2.50	26			
St. Libory		3.00	17-18			
St. Paul		2.65	26			
Sargent		2.63	26			
Strang		4.12	25-26			
Stratton		3.40	17			
Stromsburg		3.05	28			
		2.75	18			
<i>New Jersey.</i>						
Toms River		2.65	24-25			
<i>North Carolina.</i>						
Beaufort		6.48	19-20			
Hatteras		4.82	18-20			
Jacksonville		4.85	20			
Kittyhawk	12.29	5.44	20			
Leodr.		3.75	11-12			
Morganton		5.00	11			
Mountairy		3.51	10-12			
Pantego		3.78	19-20			
Do		3.14	24-25			
Settle		2.85	11-12			
Sloan		2.50	20			
Southport		3.18	19			
Willenton		2.60	26			
Wilmington		3.24	19-20			
<i>Oregon.</i>						
Langlois		2.70	21			
<i>Pennsylvania.</i>						
Reading		4.47	12			
<i>South Carolina.</i>						
Batesburg		2.80	11			
Charleston		5.30	18-19	1.40	1 00	19
Georgetown		3.30	18-19			
Pinopolis		4.20	18-19			
Port Royal		4.93	19			
Shaws Fork		2.75	18-19			
Smiths Mills		3.75	19-20			
<i>Tennessee.</i>						
Decatur		2.90	19			
<i>Texas.</i>						
Austin		2.50	15			
Blanco		5.25	15			
Brazoria		4.90	26			
College station		2.50	26			
Columbia	10.23	2.60	31			
Cuero		3.80	27			
Danevang		3.94	15			
Dublin				2.40	0 30	31
Fredericksburg				1.03	0 30	26
Galveston		2.81	30-31			
Houston		2.73	26-27			
Luling		3.72	15-16	1.50	1 00	26
<i>Virginia.</i>						
Maldens		2.51	11-12			
Do		3.20	19-20			
Norfolk		2.58	23-24			
Spottsville		3.56	19-20			
<i>West Virginia.</i>						
Phillippi				1.00	1 00	26

\*October 31–November 1.